Quantitation Report (QT Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU031020\
Data File : VU037145.D
Acq On : 10 Mar 2020 11:15
Operator : JC/MD
Sample : L1161-09 0.25 ppb
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** MDL-WATER-03-QT1-2020

Quant Time: Mar 10 11:45:13 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\524U030920DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Mon Mar 09 15:46:40 2020
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) Fluorobenzene | 6.15 | 96 | 14222 | 1.00 | ug/l | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 57) 4-Bromofluorobenzene | 10.65 | 95 | 4515 | 0.82 | ug/l | | 0.00 |
| Spiked Amount 1.000 | | | Recovery = 82.00% | | | | |
| 68) 1,2-Dichlorobenzene-d4 | 12.22 | 152 | 5020 | 0.89 | ug/l | | 0.00 |
| Spiked Amount 1.000 | | | Recovery = 89.00% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.40 | 85 | 1497 | 0.216 | ug/l | | 93 |
| 3) Chloromethane | 1.54 | 50 | 1535 | 0.222 | ug/l | | 90 |
| 4) Vinyl Chloride | 1.62 | 62 | 1243 | 0.205 | ug/l | | 94 |
| 5) Bromomethane | 1.87 | 94 | 425 | 0.201 | ug/l | | 90 |
| 6) Chloroethane | 1.95 | 64 | 900 | 0.310 | ug/l | | 92 |
| 7) Trichlorofluoromethane | 2.16 | 101 | 1475 | 0.200 | ug/l | | 98 |
| 9) 1,1-Dichloroethene | 2.60 | 96 | 704 | 0.214 | ug/l | | 84 |
| 11) Allyl Chloride | 2.95 | 41 | 1516 | 0.238 | ug/l | # | 61 |
| 12) Acrylonitrile | 3.35 | 53 | 289m | 0.372 | ug/l | | |
| 13) Acetone | 2.67 | 43 | 1168 | 1.351 | ug/l | # | 78 |
| 14) Carbon Disulfide | 2.82 | 76 | 2271 | 0.207 | ug/l | # | 75 |
| 15) Methylene Chloride | 3.08 | 84 | 938 | 0.227 | ug/l | # | 66 |
| 18) 2-Butanone | 4.77 | 43 | 1406 | 1.064 | ug/l | | 75 |
| 21) 2,2-Dichloropropane | 4.71 | 77 | 1700 | 0.230 | ug/l | # | 57 |
| 24) tert-Butyl Alcohol | 3.28 | 59 | 650m | 2.134 | ug/l | | |
| 25) Methyl tert-Butyl Ether | 3.41 | 73 | 1963 | 0.204 | ug/l | # | 86 |
| 27) Chloroform | 5.13 | 83 | 2023 | 0.232 | ug/l | | 96 |
| 31) Isopropyl Ether | 4.05 | 45 | 2665 | 0.206 | ug/l | | 89 |
| 41) Tetrahydrofuran | 5.12 | 42 | 186 | 0.222 | ug/l | # | 27 |
| 45) 4-Methyl-2-Pentanone | 7.83 | 43 | 3207 | 0.991 | ug/l | # | 77 |
| 46) t-1,4-Dichloro-2-butene | 10.84 | 75 | 854 | 0.964 | ug/l | # | 40 |
| 47) Methyl methacrylate | 7.00 | 69 | 555 | 0.278 | ug/l | # | 50 |
| 54) 2-Hexanone | 8.72 | 43 | 1952 | 0.875 | ug/l | # | 75 |
| 61) Pentachloroethane | 11.45 | 117 | 664 | 0.206 | ug/l | # | 42 |
| 64) m/p-Xylenes | 9.72 | 106 | 2100 | 0.281 | ug/l | | 87 |
| 71) 1,2,3-Trichloropropane | 10.84 | 75 | 854 | 0.247 | ug/l | # | 44 |
| 89) Naphthalene | 14.13 | 128 | 800 | 0.358 | ug/l | # | 72 |

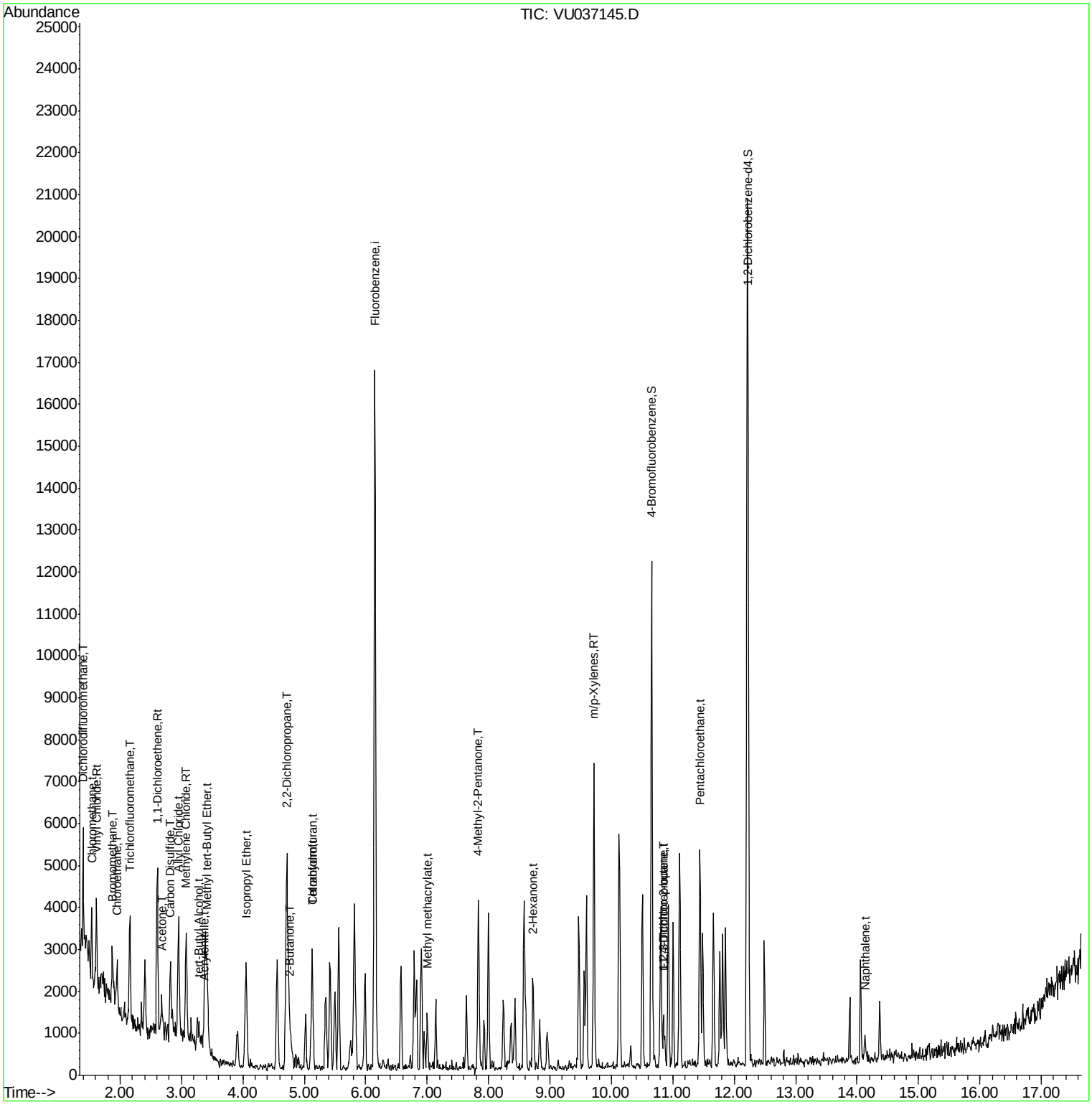
(#) = qualifier out of range (m) = manual integration (+) = signals summed

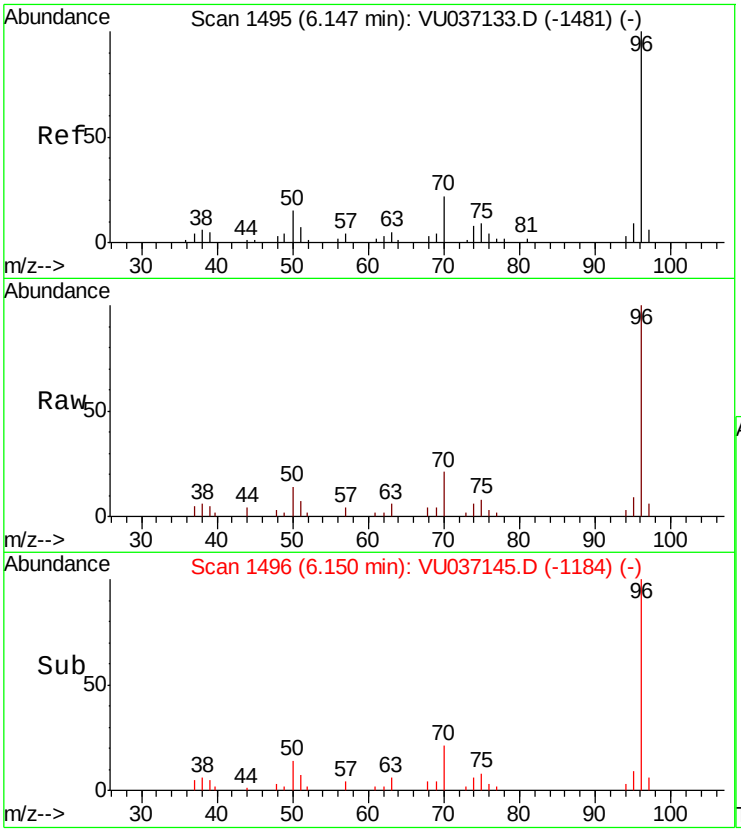
Quantitation Report (QT Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU031020\
Data File : VU037145.D
Acq On : 10 Mar 2020 11:15
Operator : JC/MD
Sample : L1161-09 0.25 ppb
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
MDL-WATER-03-QT1-2020

Quant Time: Mar 10 11:45:13 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\524U030920DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Mon Mar 09 15:46:40 2020
Response via : Initial Calibration



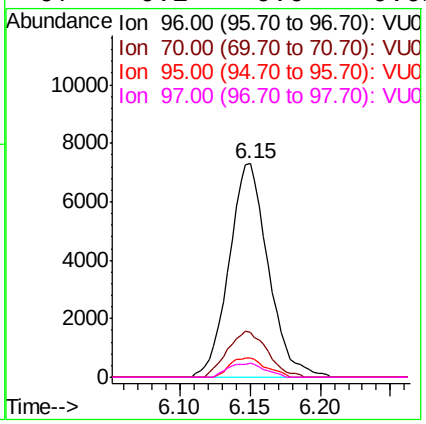


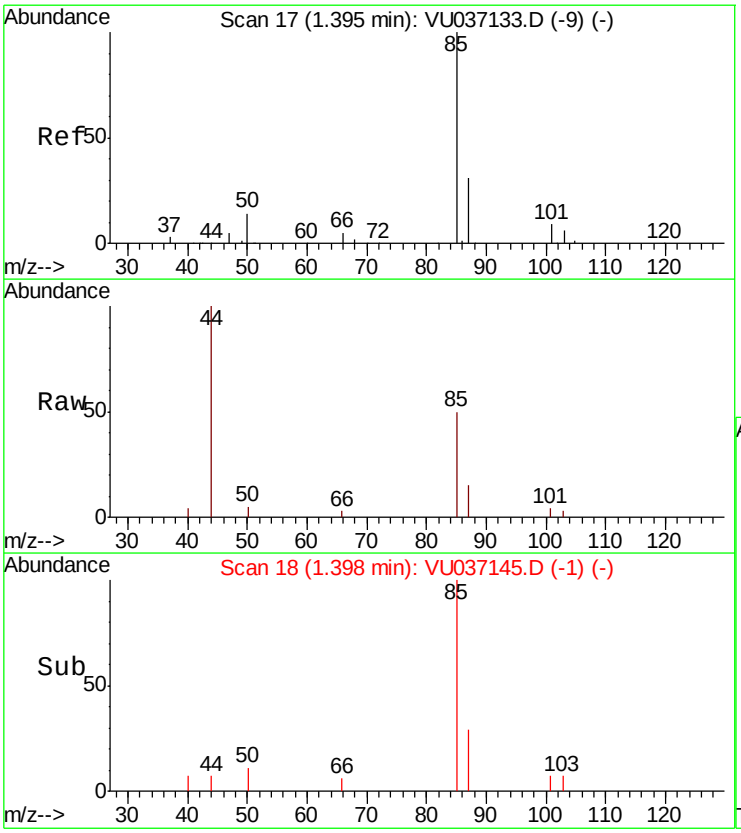

#1
Fluorobenzene
Concen: 1.000 ug/l
RT: 6.15 min Scan# 1496
Delta R.T. 0.00 min
Lab File: VU037145.D
Acq: 10 Mar 2020 11:15

**Instrument :**
MSVOA_U
**ClientSampleId :**
MDL-WATER-03-QT1-2020

Tgt Ion: 96 Resp: 14222

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 70 | 22.0 | 15.6 | 23.4 |
| 95 | 8.5 | 7.0 | 10.6 |
| 97 | 6.2 | 0.0 | 0.0# |

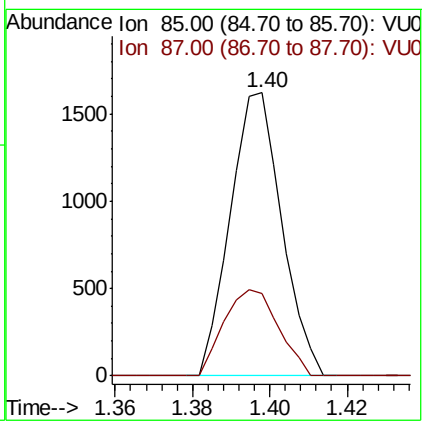


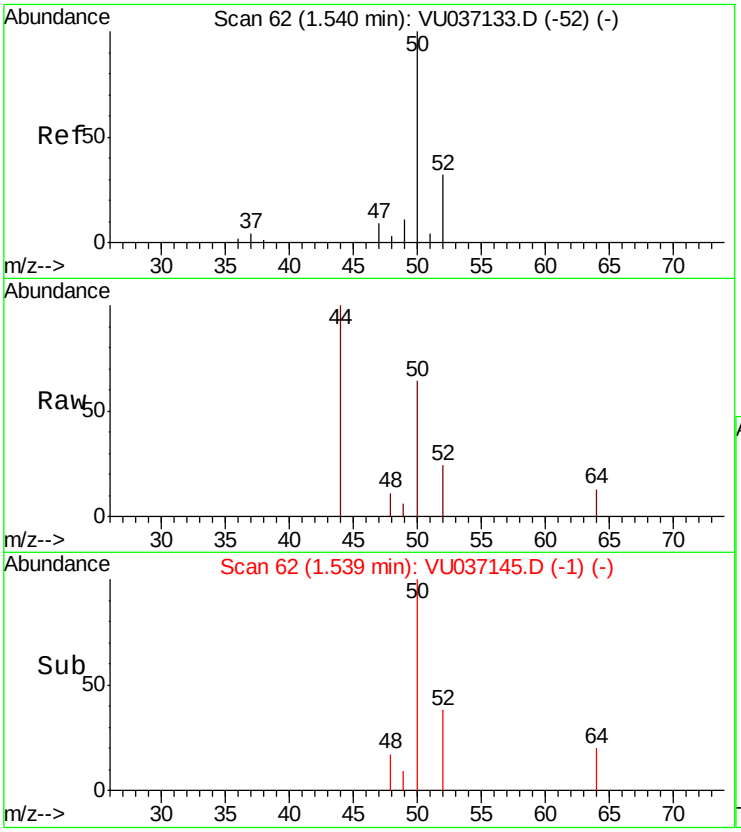




#2
Dichlorodifluoromethane
Concen: 0.216 ug/l
RT: 1.40 min Scan# 18
Delta R.T. 0.00 min
Lab File: VU037145.D
Acq: 10 Mar 2020 11:15

Tgt Ion: 85 Resp: 1497

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 29.0 | 16.4 | 49.2 |



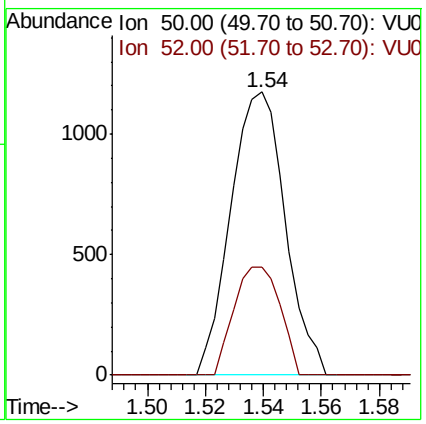


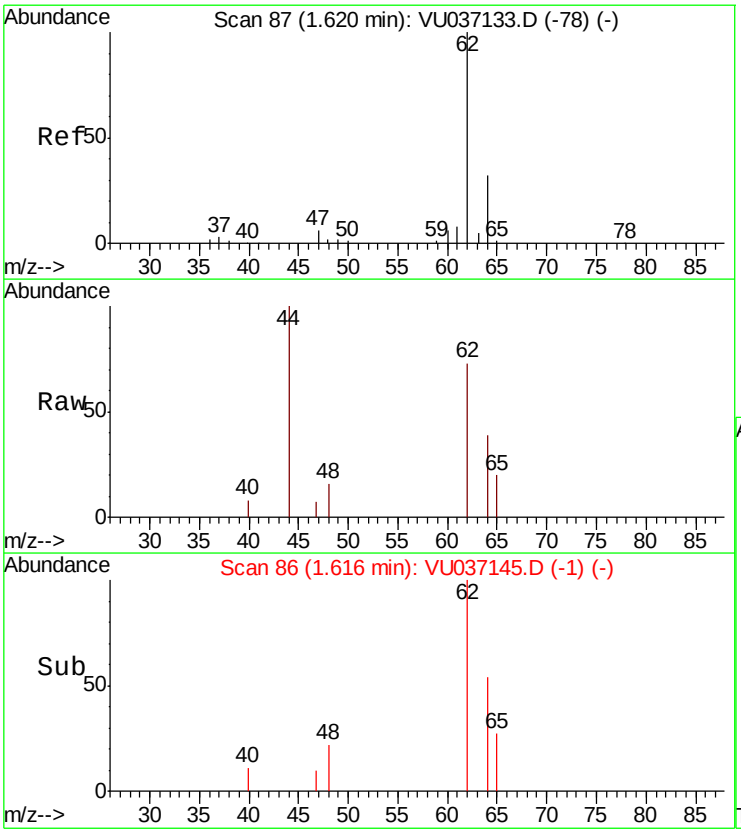

#3
Chloromethane
Concen: 0.222 ug/l
RT: 1.54 min Scan# 62
Delta R.T. -0.00 min
Lab File: VU037145.D
Acq: 10 Mar 2020 11:15

**Instrument :**
MSVOA_U
**ClientSampleId :**
MDL-WATER-03-QT1-2020

Tgt Ion: 50 Resp: 1535

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 38.0 | 26.0 | 39.0 |

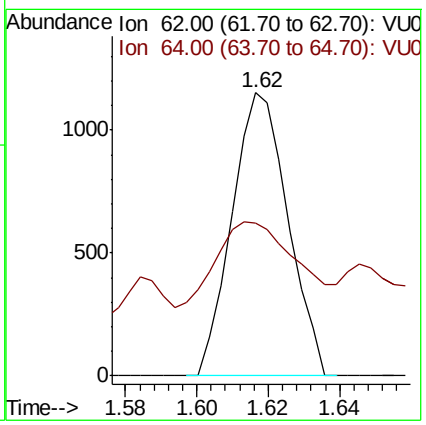


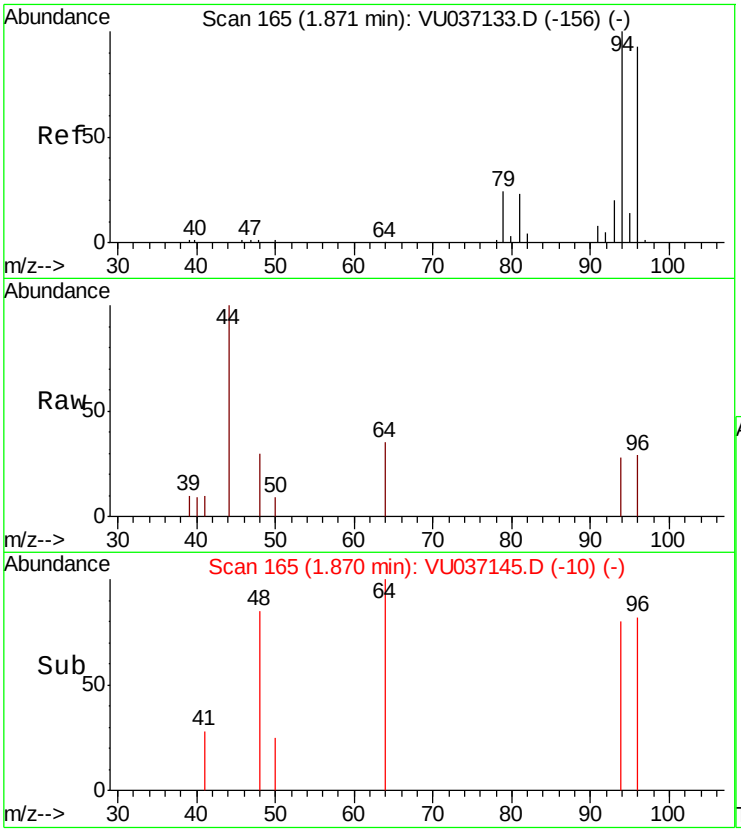




#4
Vinyl Chloride
Concen: 0.205 ug/l
RT: 1.62 min Scan# 86
Delta R.T. -0.00 min
Lab File: VU037145.D
Acq: 10 Mar 2020 11:15

Tgt Ion: 62 Resp: 1243

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 28.2 | 25.4 | 38.2 |



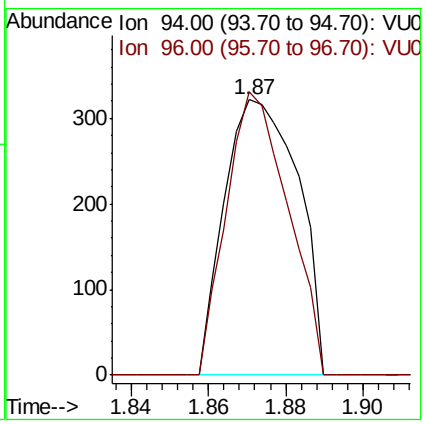


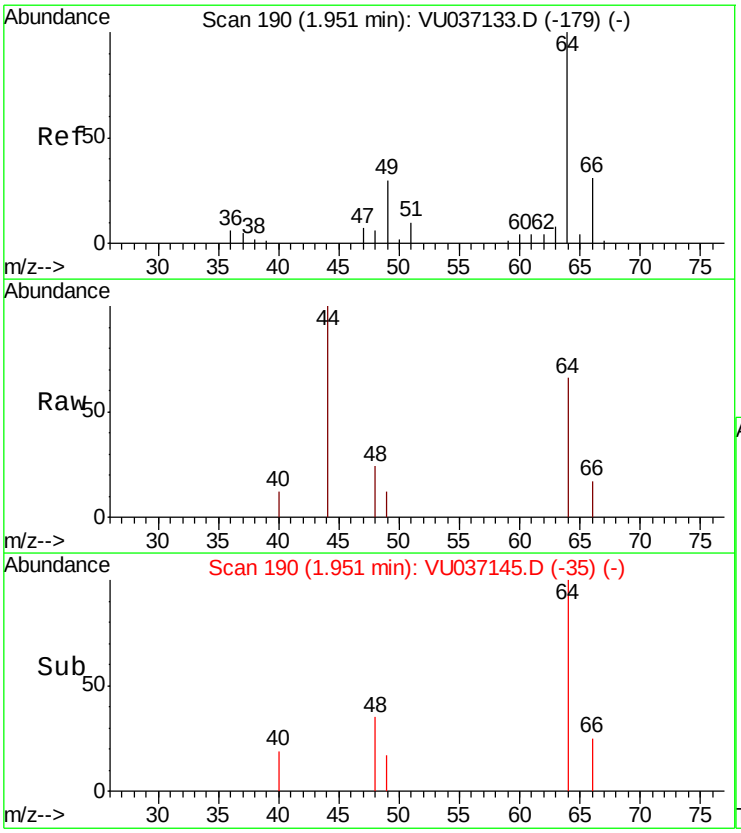

#5
Bromomethane
Concen: 0.201 ug/l
RT: 1.87 min Scan# 165
Delta R.T. -0.00 min
Lab File: VU037145.D
Acq: 10 Mar 2020 11:15

**Instrument :**
MSVOA_U
**ClientSampleId :**
MDL-WATER-03-QT1-2020

Tgt Ion: 94 Resp: 425

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 102.8 | 74.6 | 112.0 |

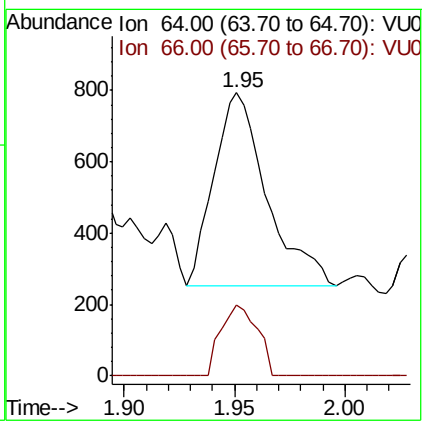


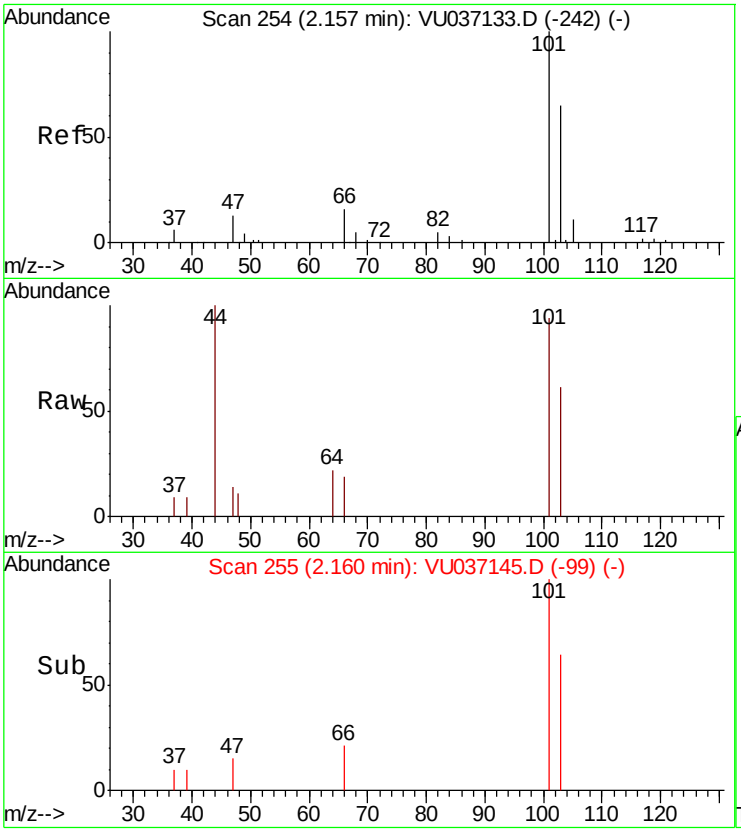




#6
Chloroethane
Concen: 0.310 ug/l
RT: 1.95 min Scan# 190
Delta R.T. -0.00 min
Lab File: VU037145.D
Acq: 10 Mar 2020 11:15

Tgt Ion: 64 Resp: 900

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 36.4 | 25.5 | 38.3 |



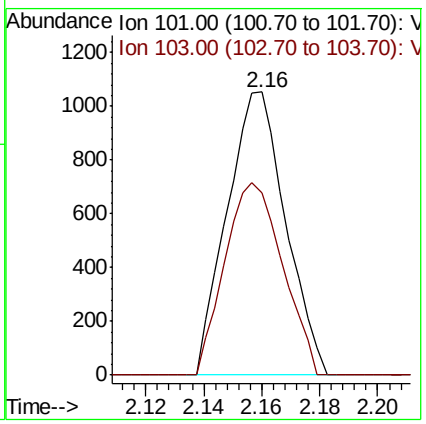


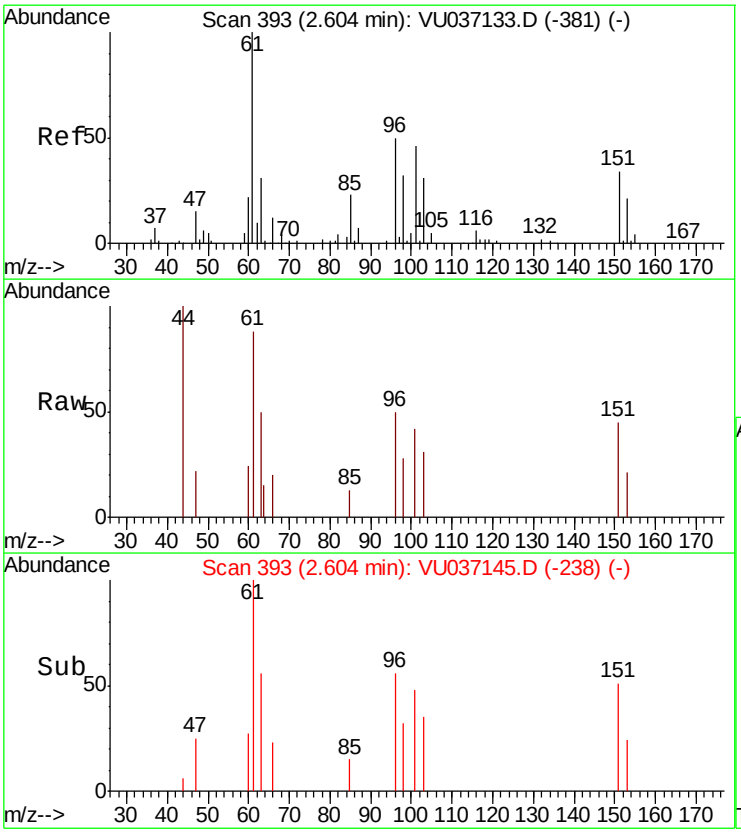

#7
Trichlorofluoromethane
Concen: 0.200 ug/l
RT: 2.16 min Scan# 255
Delta R.T. 0.00 min
Lab File: VU037145.D
Acq: 10 Mar 2020 11:15

**Instrument :**
MSVOA_U
**ClientSampleId :**
MDL-WATER-03-QT1-2020

Tgt Ion:101 Resp: 1475

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 64.5 | 53.0 | 79.6 |

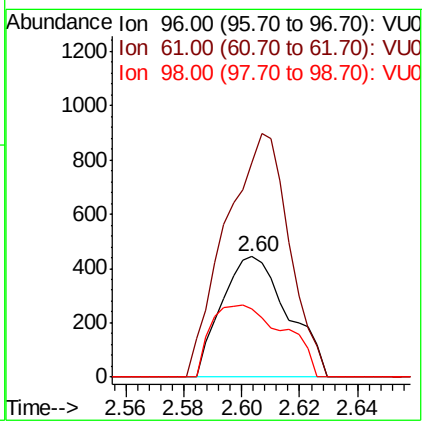


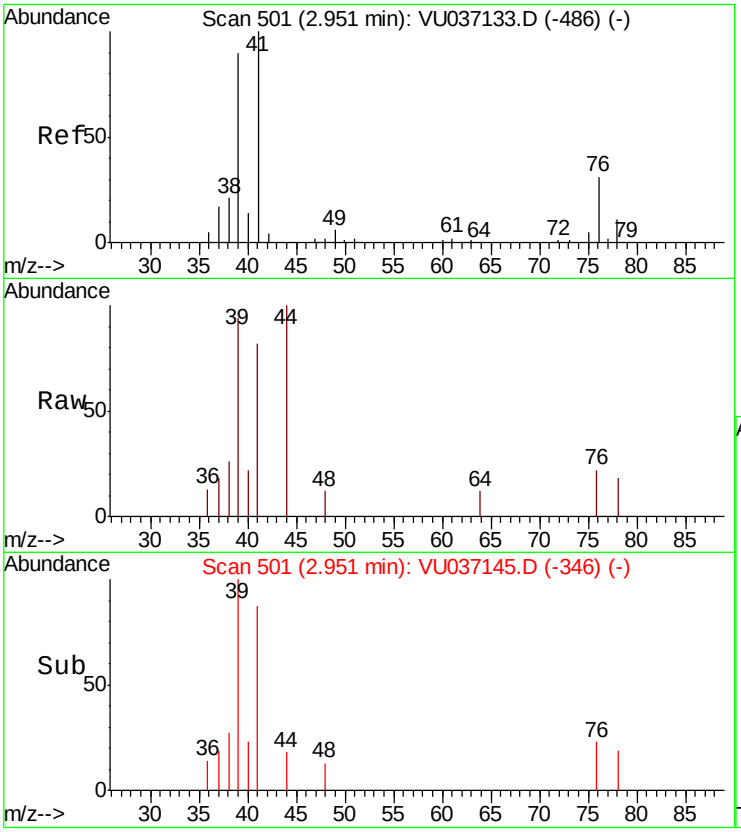




#9
1,1-Dichloroethene
Concen: 0.214 ug/l
RT: 2.60 min Scan# 393
Delta R.T. -0.00 min
Lab File: VU037145.D
Acq: 10 Mar 2020 11:15

Tgt Ion: 96 Resp: 704

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 177.9 | 0.0 | 463.2 |
| 98 | 56.4 | 0.0 | 130.0 |



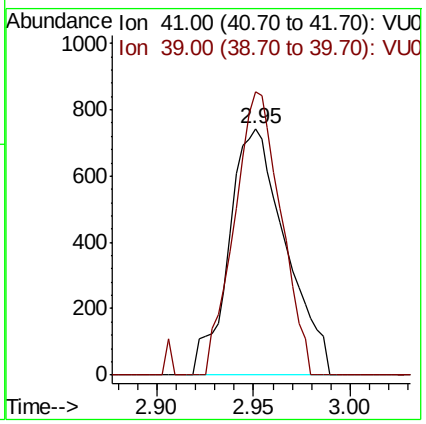


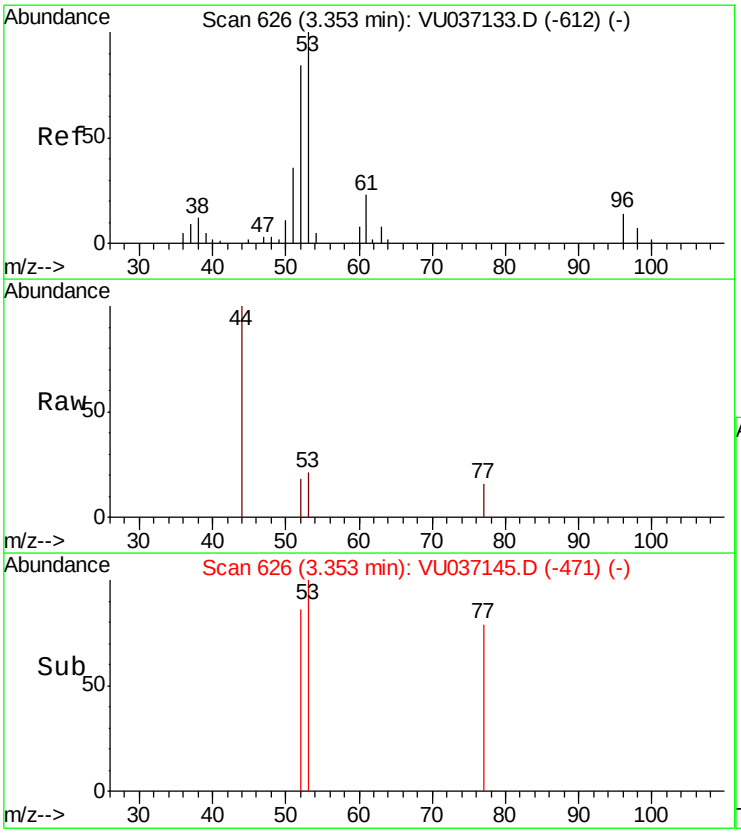

#11
Allyl Chloride
Concen: 0.238 ug/l
RT: 2.95 min Scan# 501
Delta R.T. -0.00 min
Lab File: VU037145.D
Acq: 10 Mar 2020 11:15

**Instrument :**
MSVOA_U
**ClientSampleId :**
MDL-WATER-03-QT1-2020

Tgt Ion: 41 Resp: 1516

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 94.1 | 50.7 | 76.1# |

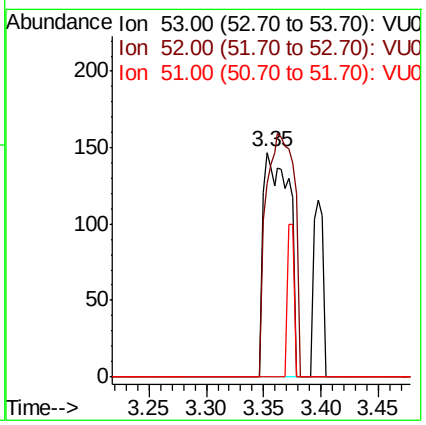


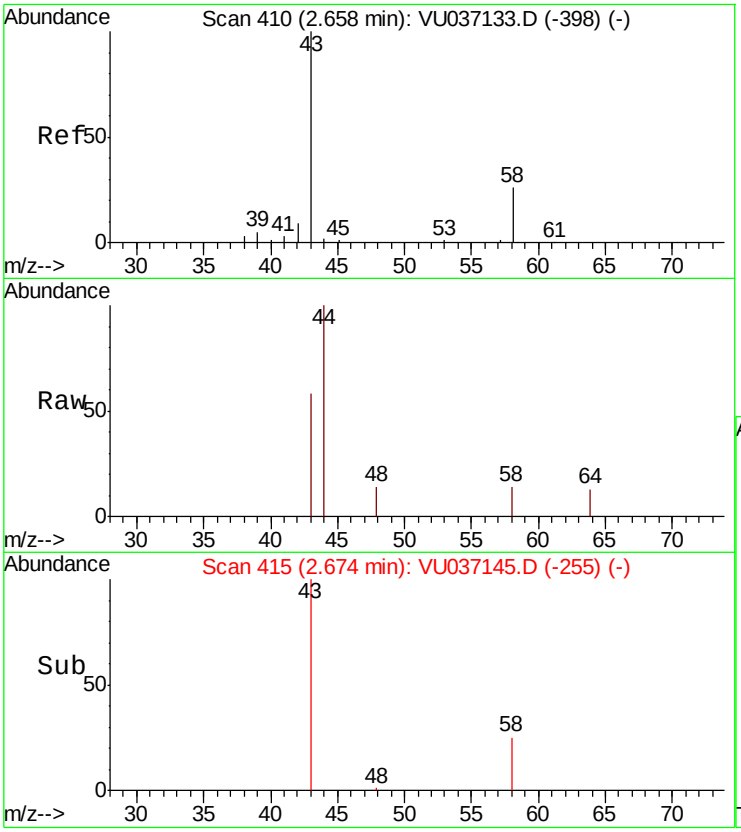




#12
Acrylonitrile
Concen: 0.372 ug/l m
RT: 3.35 min Scan# 626
Delta R.T. -0.00 min
Lab File: VU037145.D
Acq: 10 Mar 2020 11:15

Tgt Ion: 53 Resp: 289

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 92.7 | 64.6 | 97.0 |
| 51 | 13.5 | 27.2 | 40.8# |



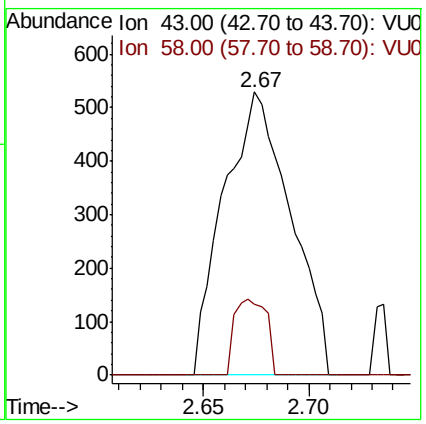


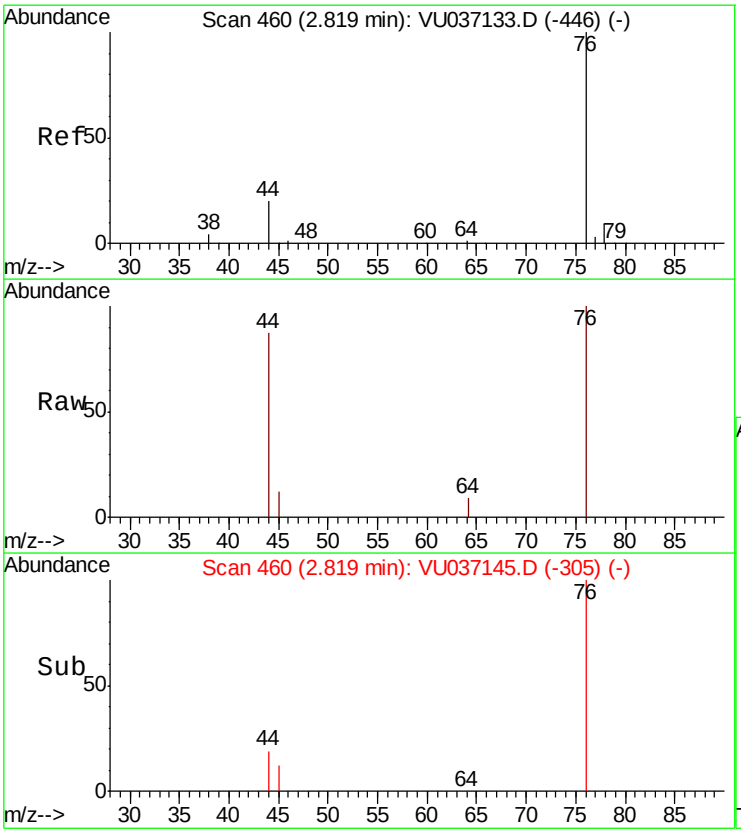

#13
Acetone
Concen: 1.351 ug/l
RT: 2.67 min Scan# 415
Delta R.T. 0.02 min
Lab File: VU037145.D
Acq: 10 Mar 2020 11:15

**Instrument :**
MSVOA_U
**ClientSampleId :**
MDL-WATER-03-QT1-2020

Tgt Ion: 43 Resp: 1168

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 25.0 | 30.8 | 46.2# |

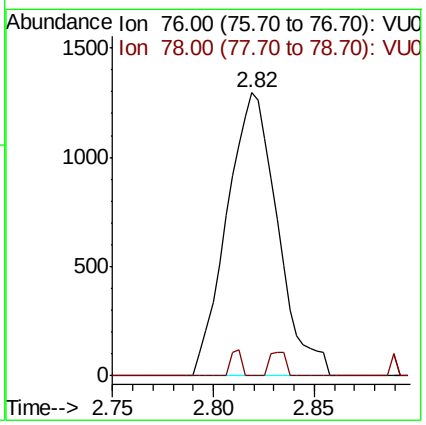


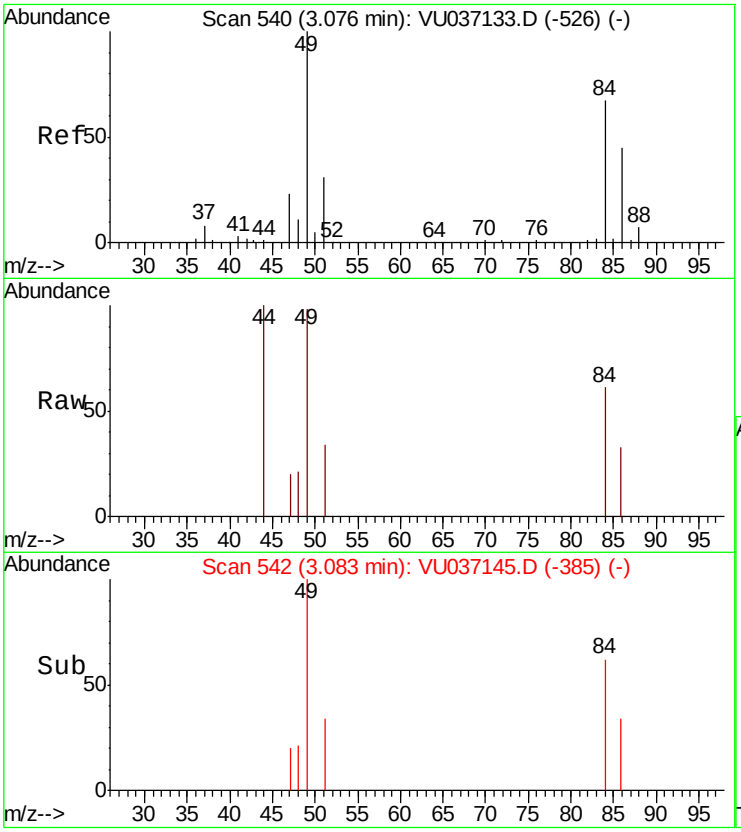




#14
Carbon Disulfide
Concen: 0.207 ug/l
RT: 2.82 min Scan# 460
Delta R.T. -0.00 min
Lab File: VU037145.D
Acq: 10 Mar 2020 11:15

Tgt Ion: 76 Resp: 2271

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 0.0 | 7.4 | 11.0# |



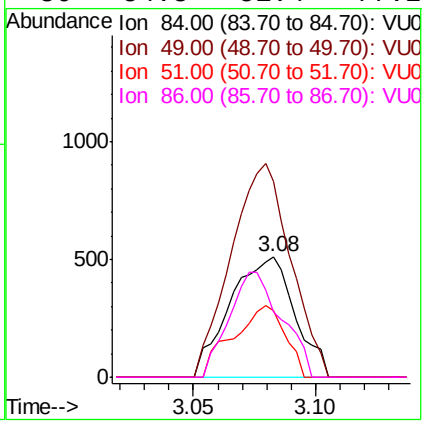


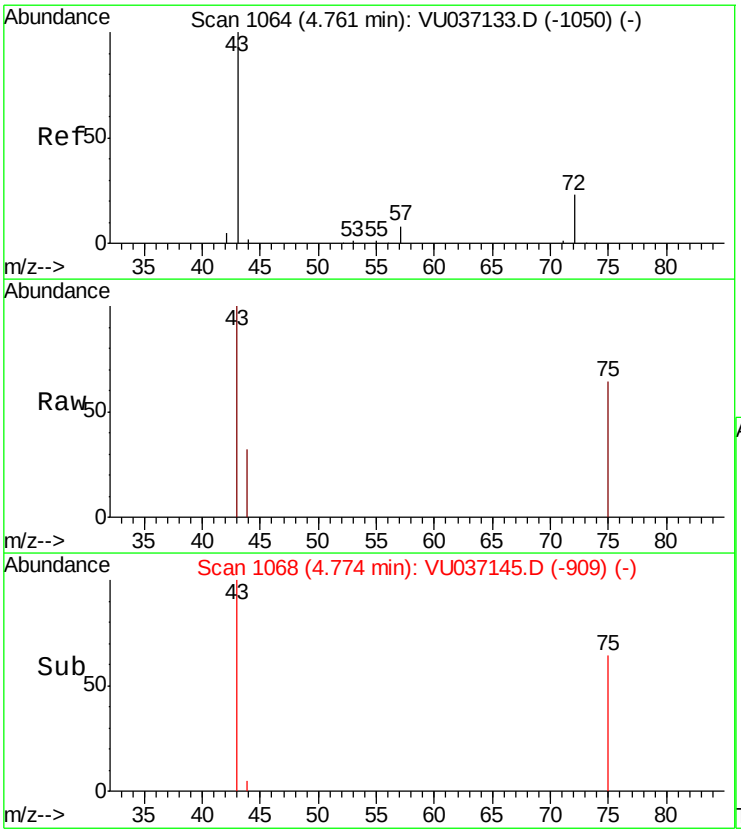

#15
Methylene Chloride
Concen: 0.227 ug/l
RT: 3.08 min Scan# 542
Delta R.T. 0.01 min
Lab File: VU037145.D
Acq: 10 Mar 2020 11:15

**Instrument :**
MSVOA_U
**ClientSampleId :**
MDL-WATER-03-QT1-2020

Tgt Ion: 84 Resp: 938

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 162.2 | 89.7 | 134.5# |
| 51 | 55.4 | 0.0 | 71.6 |
| 86 | 54.8 | 51.4 | 77.2 |

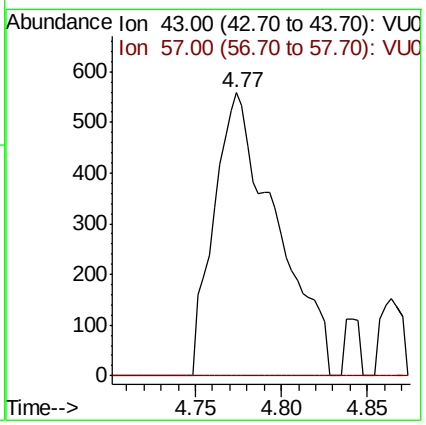


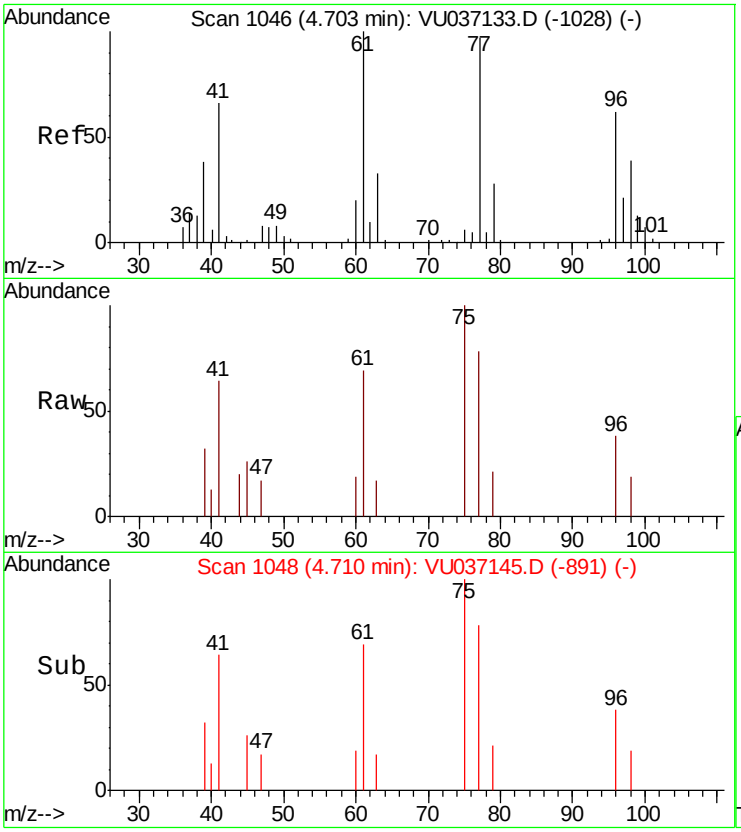




#18
2-Butanone
Concen: 1.064 ug/l
RT: 4.77 min Scan# 1068
Delta R.T. 0.01 min
Lab File: VU037145.D
Acq: 10 Mar 2020 11:15

Tgt Ion: 43 Resp: 1406

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 0.0 | 0.0 | 17.8 |



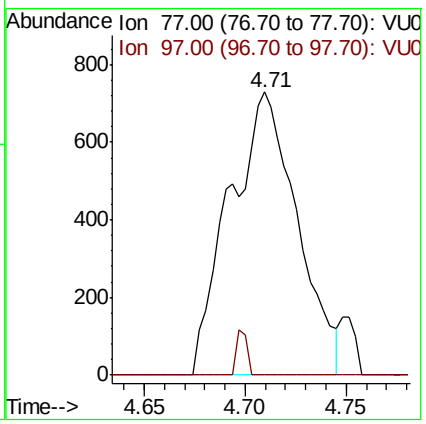


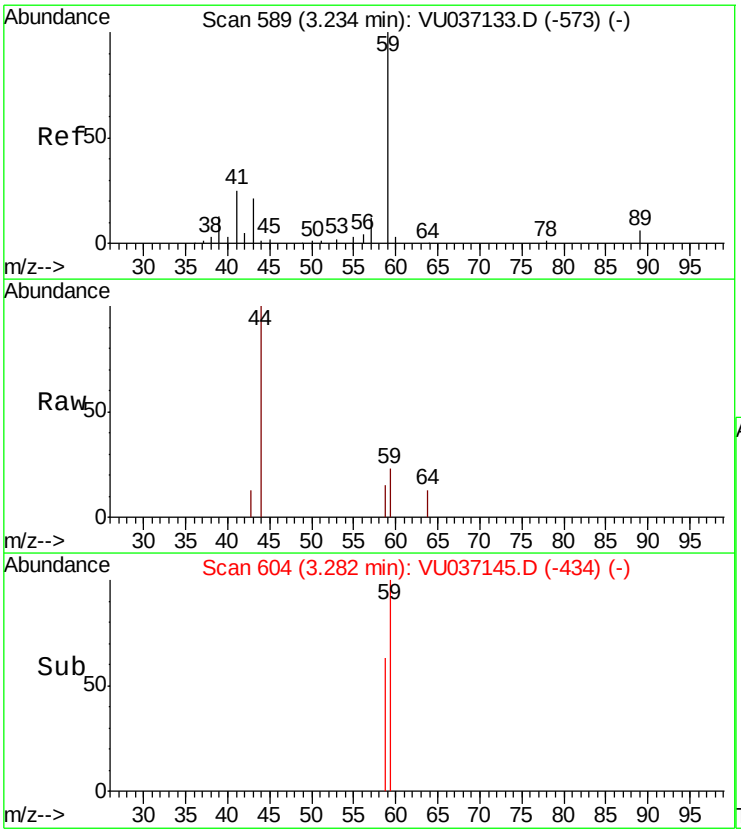

#21
2,2-Dichloropropane
Concen: 0.230 ug/l
RT: 4.71 min Scan# 1048
Delta R.T. 0.01 min
Lab File: VU037145.D
Acq: 10 Mar 2020 11:15

**Instrument :**
MSVOA_U
**ClientSampleId :**
MDL-WATER-03-QT1-2020

Tgt Ion: 77 Resp: 1700

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 2.5 | 19.0 | 28.4# |

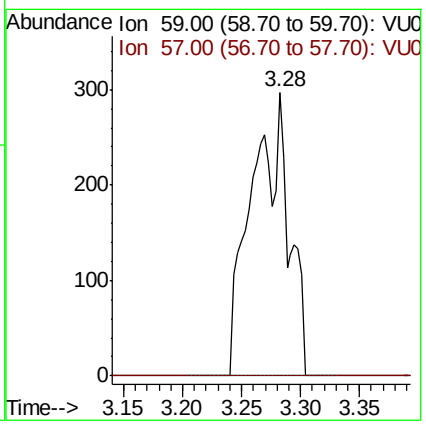


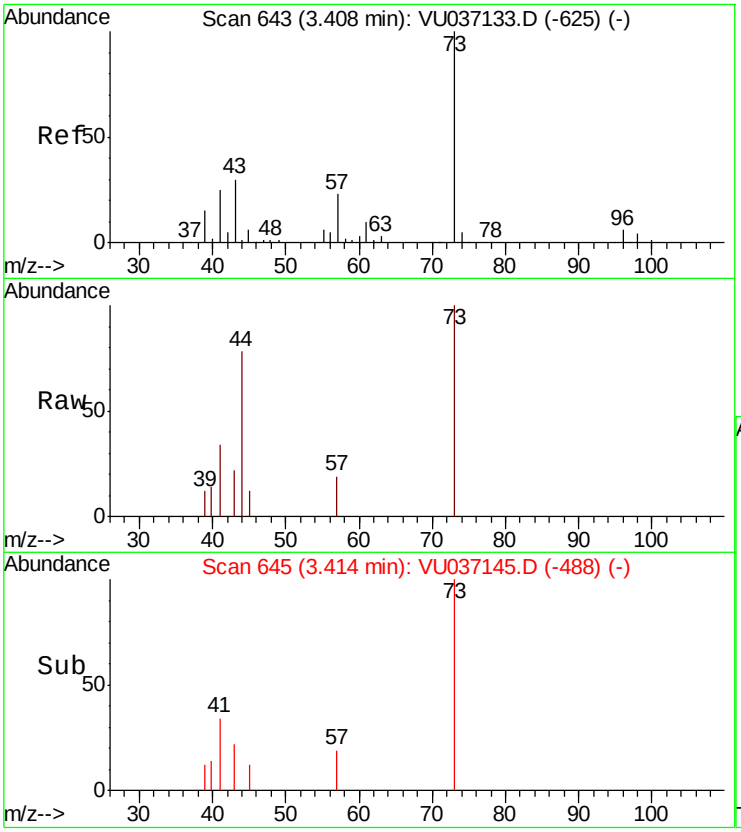




#24
tert-Butyl Alcohol
Concen: 2.134 ug/l m
RT: 3.28 min Scan# 604
Delta R.T. 0.05 min
Lab File: VU037145.D
Acq: 10 Mar 2020 11:15

Tgt Ion: 59 Resp: 650

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 0.0 | 8.4 | 12.6# |



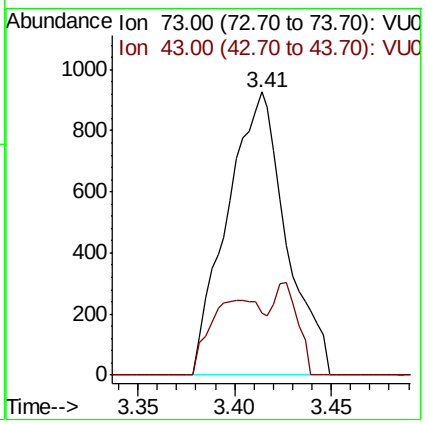


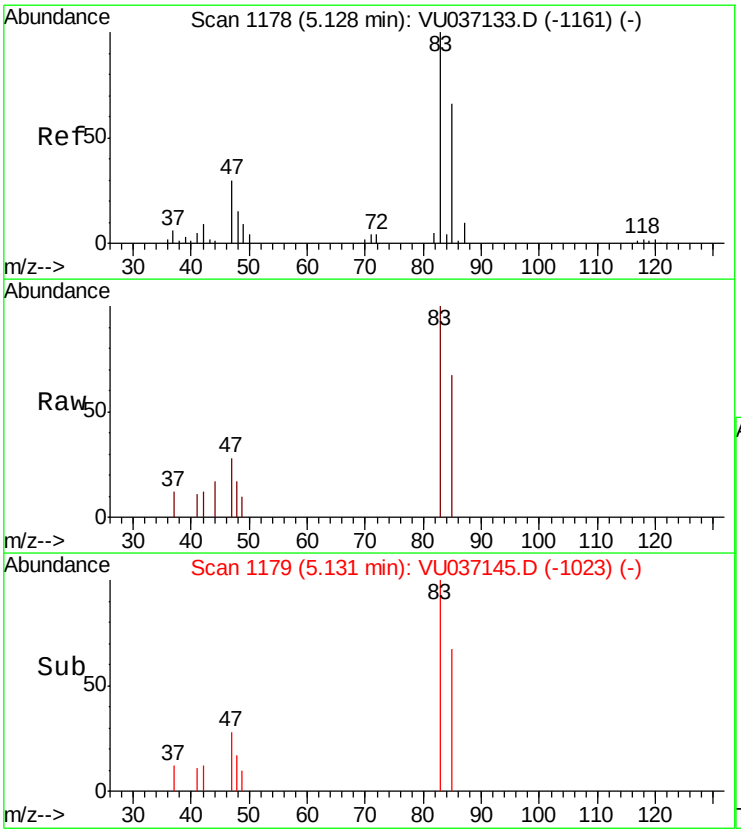

#25
Methyl tert-Butyl Ether
Concen: 0.204 ug/l
RT: 3.41 min Scan# 645
Delta R.T. 0.01 min
Lab File: VU037145.D
Acq: 10 Mar 2020 11:15

**Instrument :**
MSVOA_U
**ClientSampleId :**
MDL-WATER-03-QT1-2020

Tgt Ion: 73 Resp: 1963

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 43 | 24.3 | 14.5 | 21.7# |

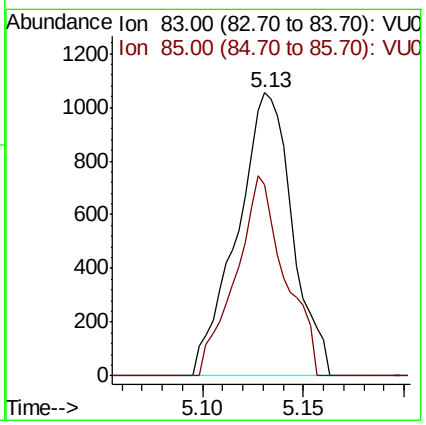


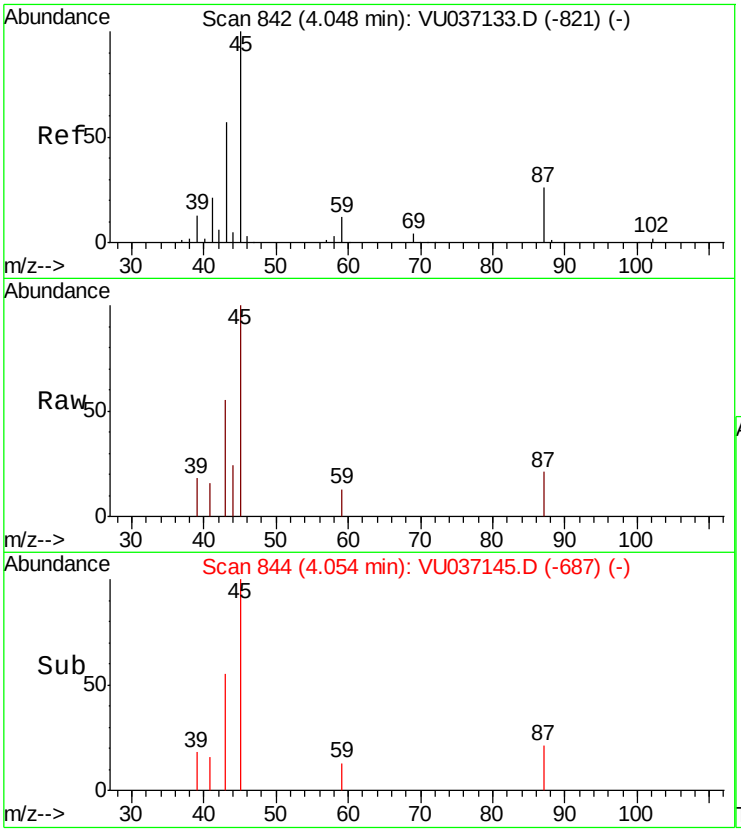




#27
Chloroform
Concen: 0.232 ug/l
RT: 5.13 min Scan# 1179
Delta R.T. 0.00 min
Lab File: VU037145.D
Acq: 10 Mar 2020 11:15

Tgt Ion: 83 Resp: 2023

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 67.4 | 0.0 | 129.0 |



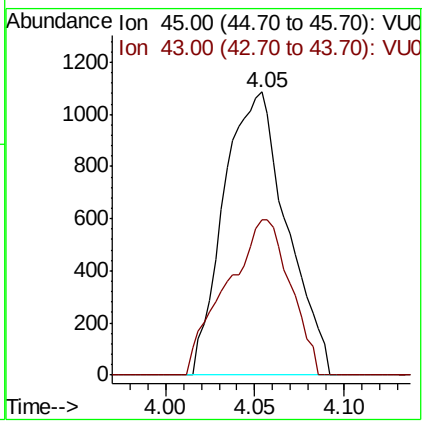


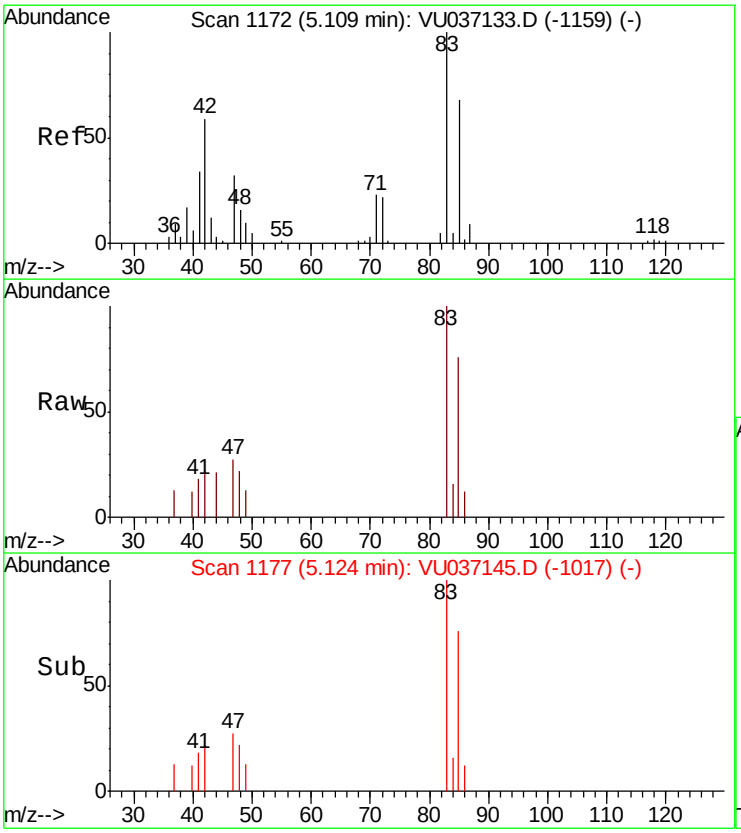

#31
Isopropyl Ether
Concen: 0.206 ug/l
RT: 4.05 min Scan# 844
Delta R.T. 0.01 min
Lab File: VU037145.D
Acq: 10 Mar 2020 11:15

**Instrument :**
MSVOA_U
**ClientSampleId :**
MDL-WATER-03-QT1-2020

Tgt Ion: 45 Resp: 2665

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 55.8 | 24.0 | 72.0 |

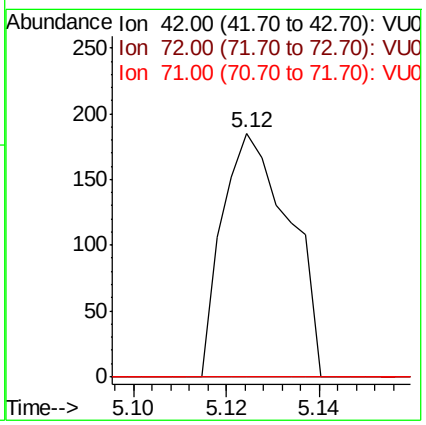


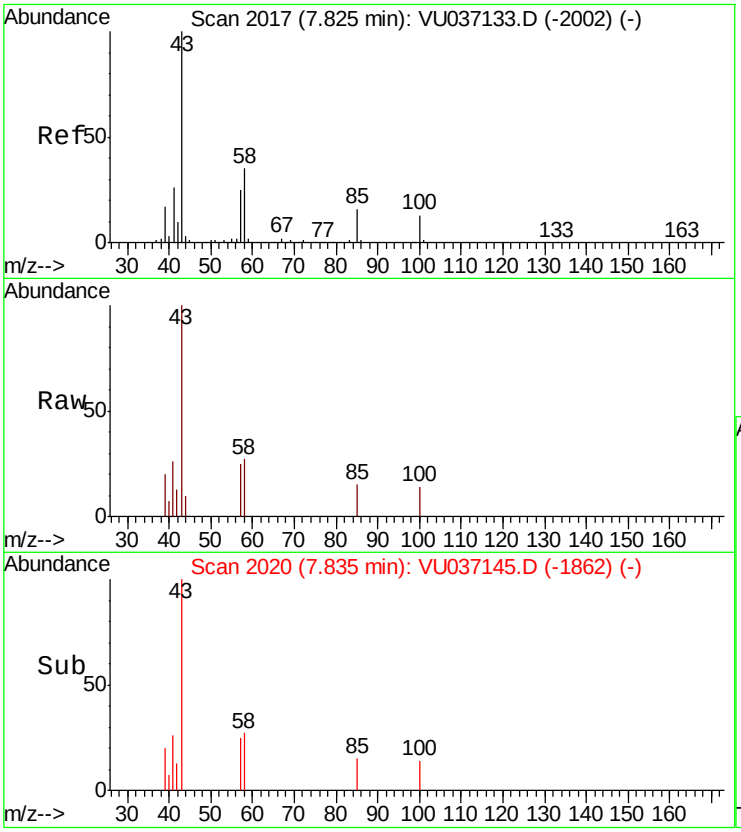




#41
Tetrahydrofuran
Concen: 0.222 ug/l
RT: 5.12 min Scan# 1177
Delta R.T. 0.02 min
Lab File: VU037145.D
Acq: 10 Mar 2020 11:15

Tgt Ion: 42 Resp: 186

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 0.0 | 42.5 | 63.7# |
| 71 | 0.0 | 37.3 | 55.9# |



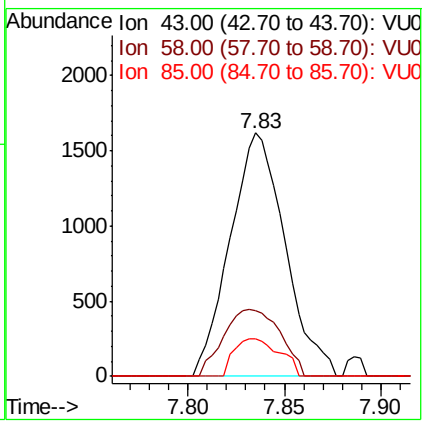


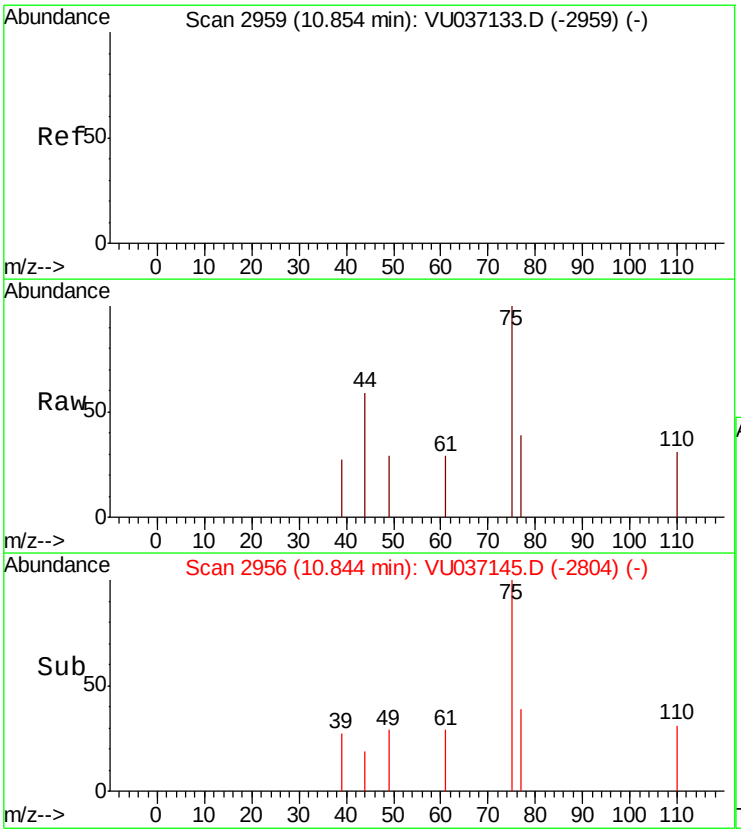

#45
4-Methyl-2-Pentanone
Concen: 0.991 ug/l
RT: 7.83 min Scan# 2020
Delta R.T. 0.01 min
Lab File: VU037145.D
Acq: 10 Mar 2020 11:15

**Instrument :**
MSVOA_U
**ClientSampleId :**
MDL-WATER-03-QT1-2020

Tgt Ion: 43 Resp: 3207

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 28.3 | 22.1 | 66.1 |
| 85 | 12.7 | 17.4 | 26.0# |

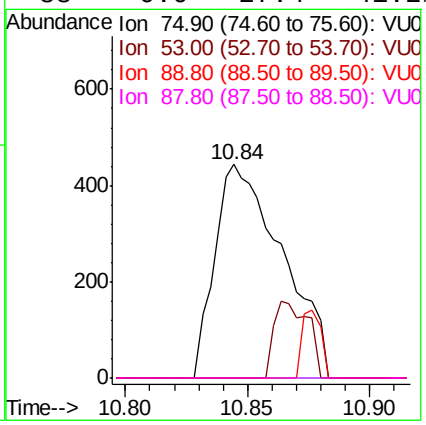


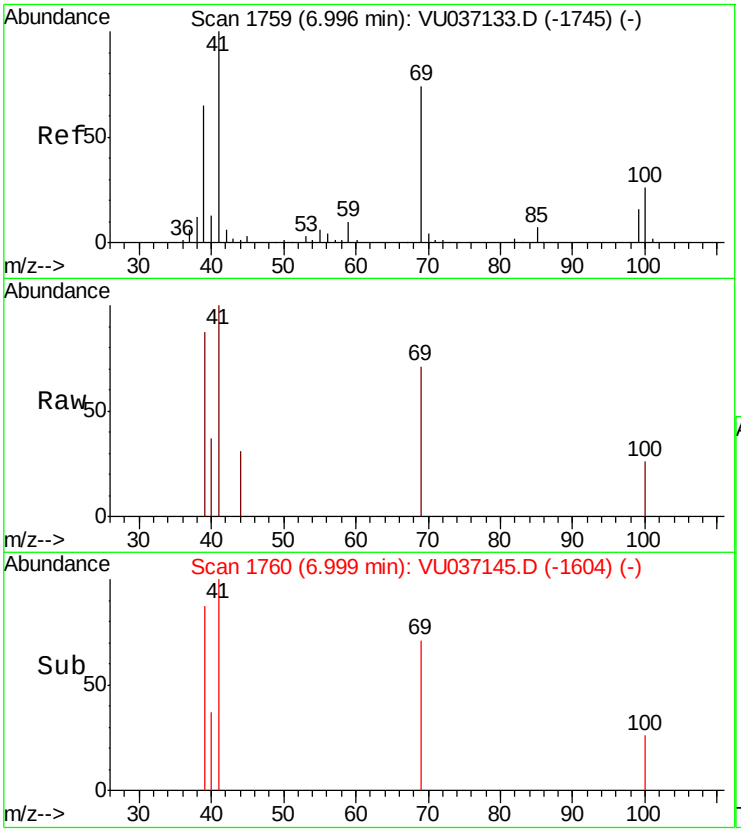




#46
t-1,4-Dichloro-2-butene
Concen: 0.964 ug/l
RT: 10.84 min Scan# 2956
Delta R.T. -0.01 min
Lab File: VU037145.D
Acq: 10 Mar 2020 11:15

Tgt Ion: 75 Resp: 854

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 18.1 | 52.2 | 78.2# |
| 89 | 8.5 | 39.8 | 59.6# |
| 88 | 0.0 | 27.4 | 41.2# |



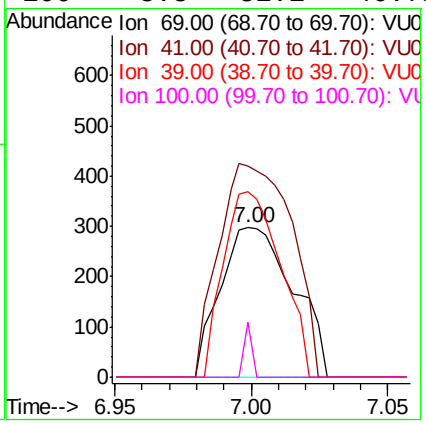


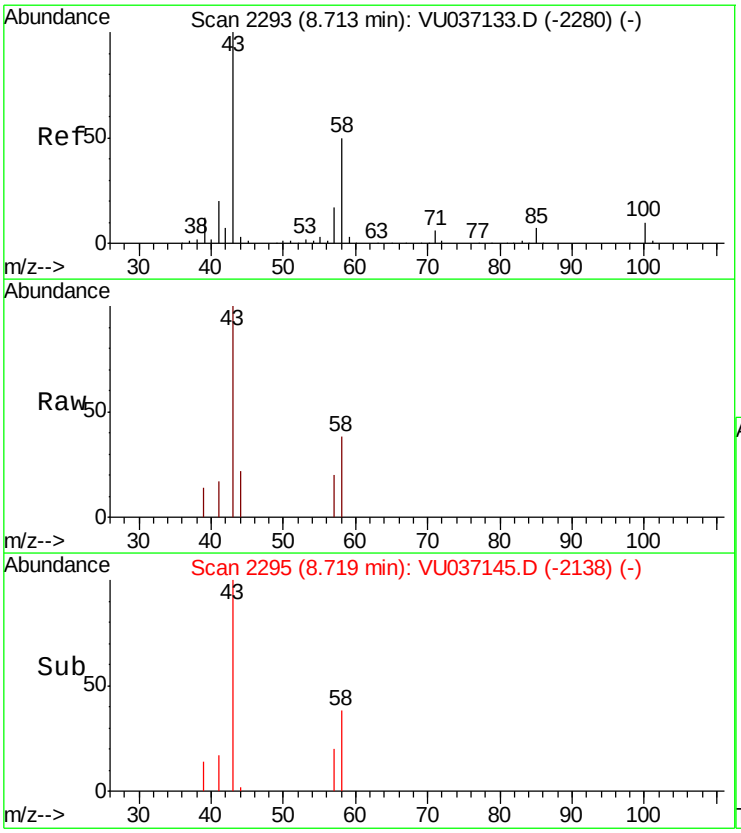

#47
Methyl methacrylate
Concen: 0.278 ug/l
RT: 7.00 min Scan# 1760
Delta R.T. 0.00 min
Lab File: VU037145.D
Acq: 10 Mar 2020 11:15

**Instrument :**
MSVOA_U
**ClientSampleId :**
MDL-WATER-03-QT1-2020

Tgt Ion: 69 Resp: 555

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 143.1 | 0.0 | 200.8 |
| 39 | 97.5 | 43.5 | 65.3# |
| 100 | 3.8 | 31.1 | 46.7# |

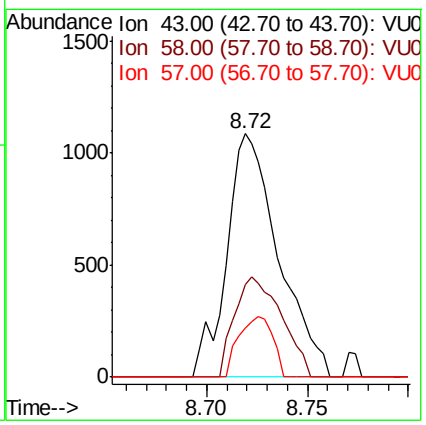


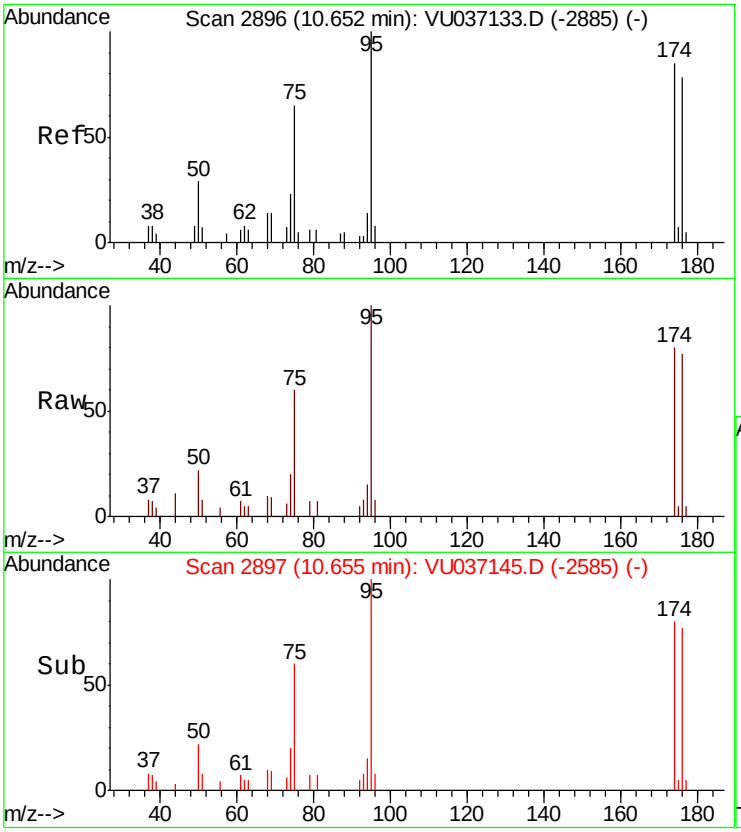




#54
2-Hexanone
Concen: 0.875 ug/l
RT: 8.72 min Scan# 2295
Delta R.T. 0.01 min
Lab File: VU037145.D
Acq: 10 Mar 2020 11:15

Tgt Ion: 43 Resp: 1952

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 37.4 | 40.6 | 80.6# |
| 57 | 16.3 | 1.2 | 41.2 |



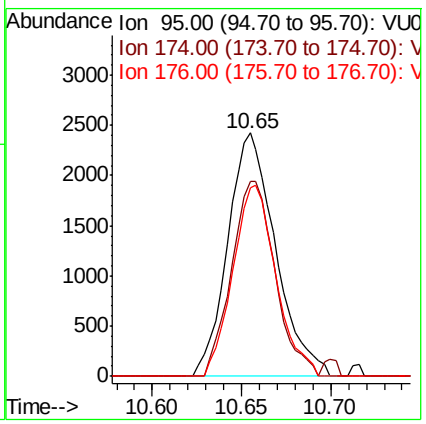


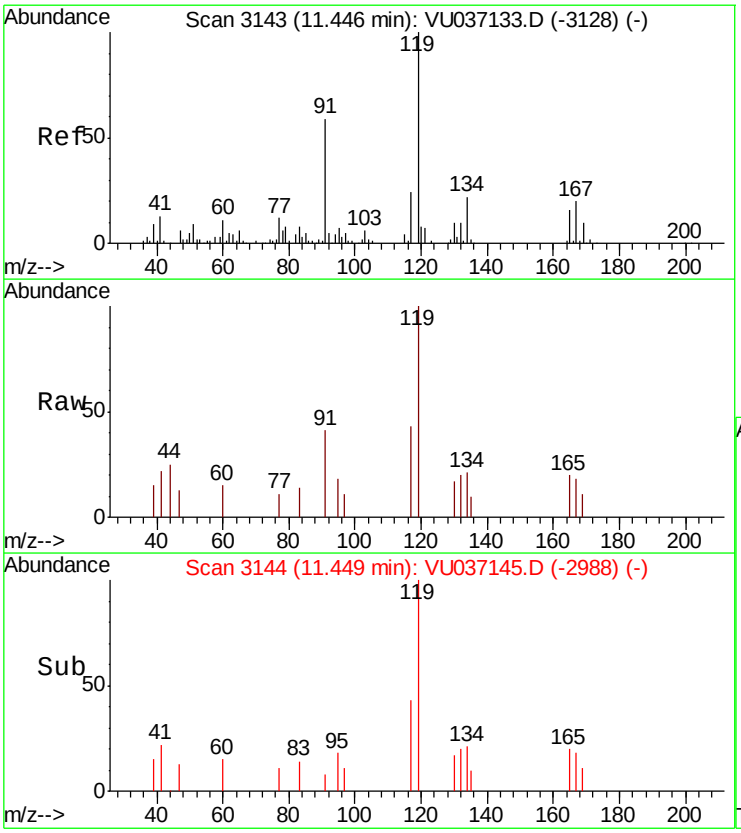

#57
4-Bromofluorobenzene
Concen: 0.821 ug/l
RT: 10.65 min Scan# 2897
Delta R.T. 0.00 min
Lab File: VU037145.D
Acq: 10 Mar 2020 11:15

**Instrument :**
MSVOA_U
**ClientSampleId :**
MDL-WATER-03-QT1-2020

Tgt Ion: 95 Resp: 4515

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 72.8 | 64.7 | 97.1 |
| 176 | 70.6 | 60.6 | 91.0 |

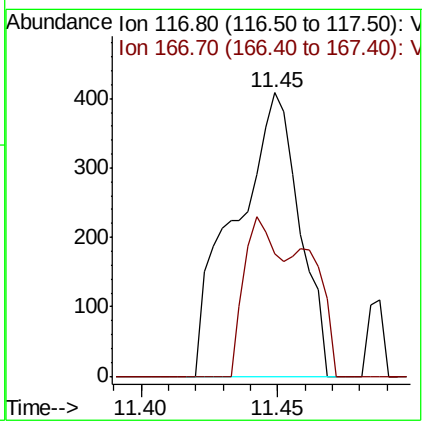


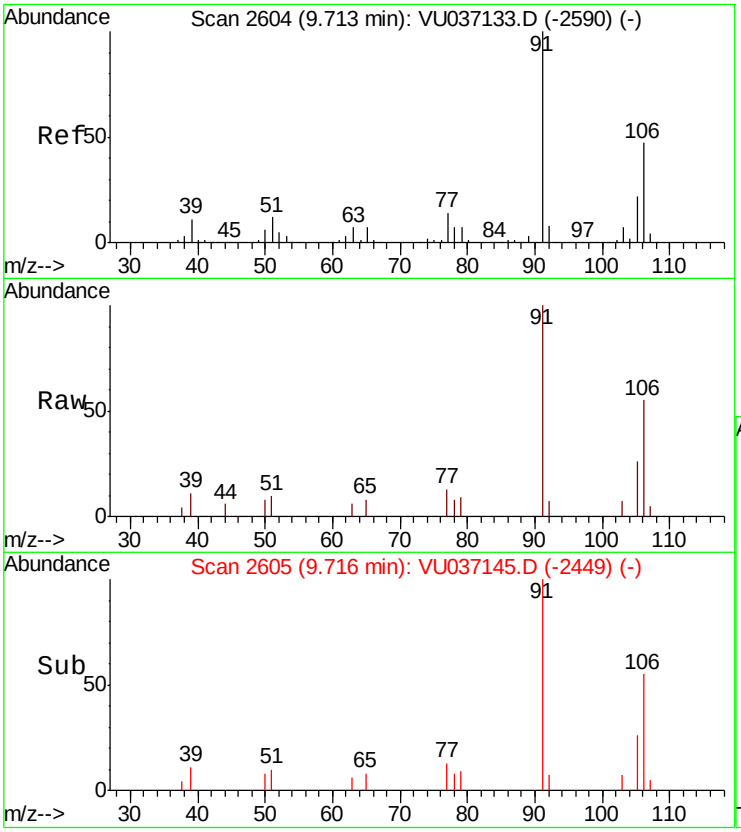




#61
Pentachloroethane
Concen: 0.206 ug/l
RT: 11.45 min Scan# 3144
Delta R.T. 0.00 min
Lab File: VU037145.D
Acq: 10 Mar 2020 11:15

Tgt Ion:117 Resp: 664

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 167 | 31.0 | 66.7 | 100.1# |



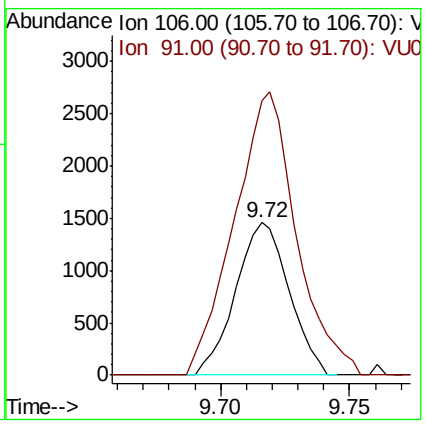


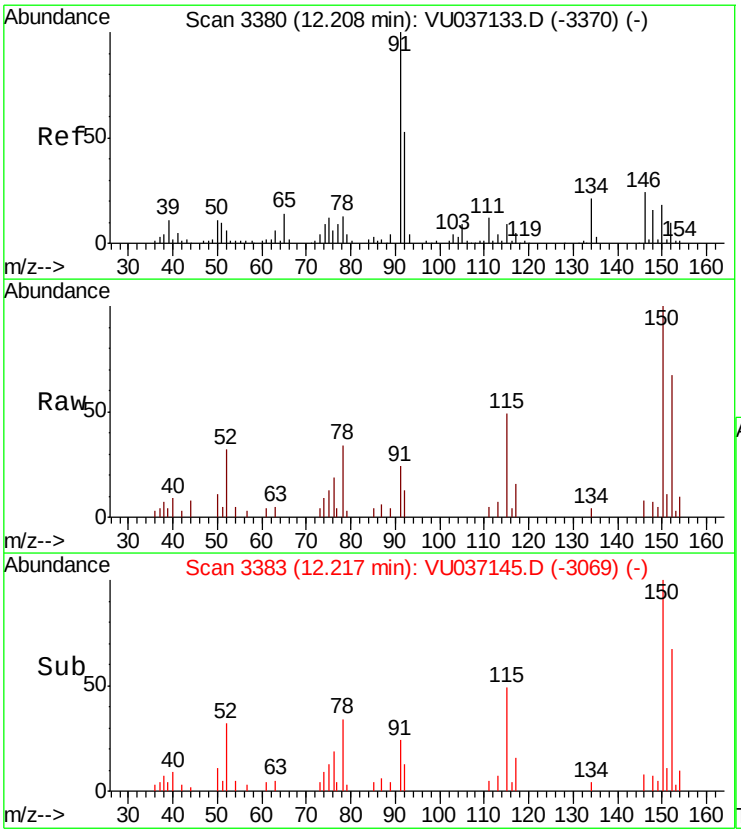

#64
m/p-Xylenes
Concen: 0.281 ug/l
RT: 9.72 min Scan# 2605
Delta R.T. 0.00 min
Lab File: VU037145.D
Acq: 10 Mar 2020 11:15

**Instrument :**
MSVOA_U
**ClientSampleId :**
MDL-WATER-03-QT1-2020

Tgt Ion:106 Resp: 2100

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 217.0 | 158.2 | 237.4 |

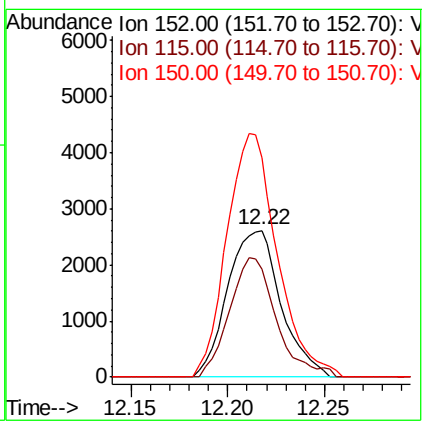


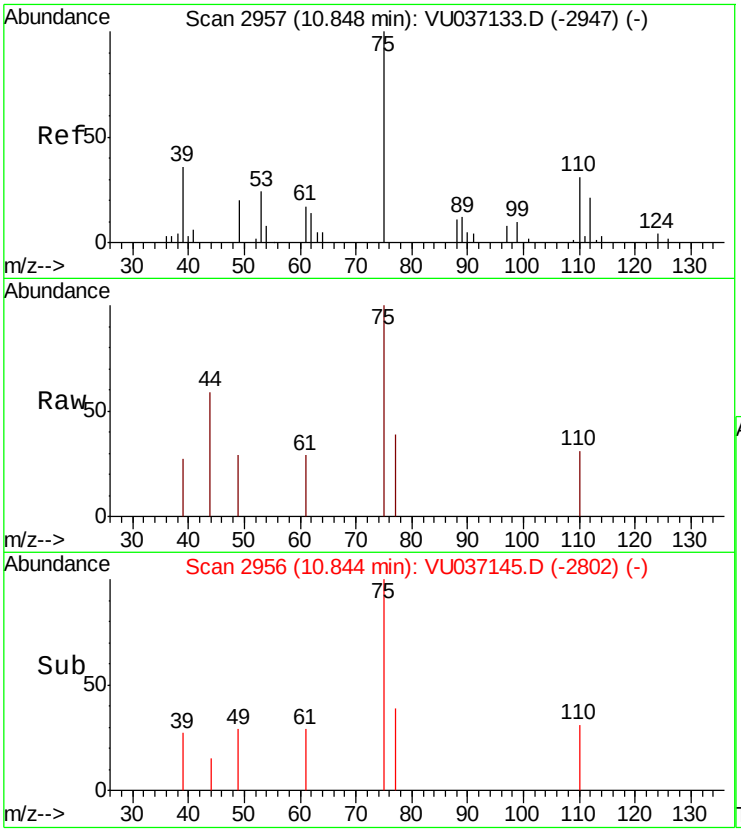




#68
1,2-Dichlorobenzene-d4
Concen: 0.895 ug/l
RT: 12.22 min Scan# 3383
Delta R.T. 0.01 min
Lab File: VU037145.D
Acq: 10 Mar 2020 11:15

Tgt Ion:152 Resp: 5020

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 71.4 | 0.0 | 241.8 |
| 150 | 156.0 | 0.0 | 652.4 |



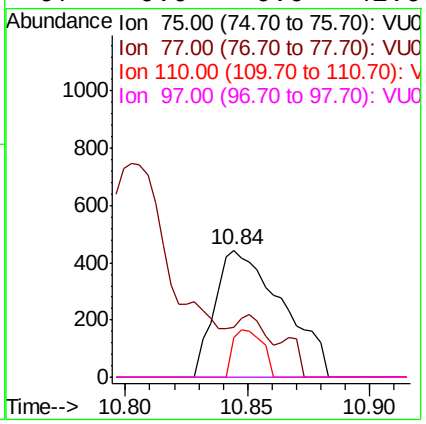


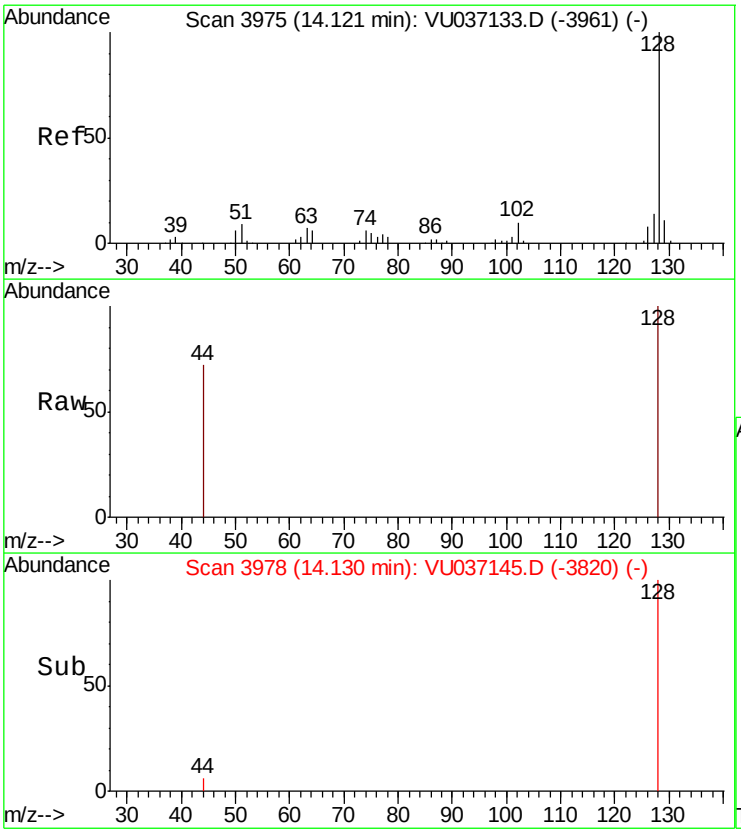

#71
1,2,3-Trichloropropane
Concen: 0.247 ug/l
RT: 10.84 min Scan# 2956
Delta R.T. -0.00 min
Lab File: VU037145.D
Acq: 10 Mar 2020 11:15

**Instrument :**
MSVOA_U
**ClientSampleId :**
MDL-WATER-03-QT1-2020

Tgt Ion: 75 Resp: 854

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 8.4 | 0.0 | 129.6 |
| 110 | 16.2 | 0.0 | 77.4 |
| 97 | 0.0 | 0.0 | 42.0 |




#89
Naphthalene
Concen: 0.358 ug/l
RT: 14.13 min Scan# 3978
Delta R.T. 0.01 min
Lab File: VU037145.D
Acq: 10 Mar 2020 11:15

Tgt Ion:128 Resp: 800

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 0.0 | 10.5 | 15.7# |
| 129 | 2.5 | 8.7 | 13.1# |